Summary of Occupational Incidents (Middle East Land Totals)

Issued 15 July 2016
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### IADC 2015 Middle East Land Totals (Table 1)

<table>
<thead>
<tr>
<th>Category</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Man-hours</td>
<td>103,466,893</td>
</tr>
<tr>
<td>Total Medical Treatment Incidents</td>
<td>144</td>
</tr>
<tr>
<td>Total Restricted Work Incidents</td>
<td>93</td>
</tr>
<tr>
<td>Total Lost Time Incidents</td>
<td>69</td>
</tr>
<tr>
<td>Total Fatalities</td>
<td>2</td>
</tr>
<tr>
<td>Total Recordables</td>
<td>308</td>
</tr>
<tr>
<td>MTO Incidence Rate</td>
<td>0.28</td>
</tr>
<tr>
<td>RWC Incidence Rate</td>
<td>0.18</td>
</tr>
<tr>
<td>LTI Incidence Rate</td>
<td>0.14</td>
</tr>
<tr>
<td>LTI Frequency Rate</td>
<td>0.69</td>
</tr>
<tr>
<td>DART Incidence Rate</td>
<td>0.32</td>
</tr>
<tr>
<td>DART Frequency Rate</td>
<td>1.59</td>
</tr>
<tr>
<td>Recordable Incident Rate</td>
<td>0.60</td>
</tr>
<tr>
<td>Recordable Frequency Rate</td>
<td>2.98</td>
</tr>
</tbody>
</table>

**Companies Reporting:** Land – 23

Medical Treatment Incidence Rate = MTOs X 200,000
Restricted Work Incidence Rate = RWCs X 200,000
Lost Time Incidence Rate = LTIs + FTLs X 200,000
DART Incidence Rate = LTIs + RWC X 200,000
Recordable Incidence Rate = RCRD X 200,000

### Middle East Land Total LTI & Recordable Incidence Rates vs Man-hours (Figure 1)
Middle East Land Total Lost Time Incidents by Month (Chart 1)
Based on 68 Incidents

- December: 5.88%
- November: 7.35%
- October: 13.24%
- September: 11.76%
- August: 10.29%
- July: 11.76%
- June: 7.35%
- May: 4.41%
- April: 8.82%
- March: 4.41%
- February: 11.76%
- January: 2.94%

IADC 2015 Middle East Land Charts

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Middle East Land Total Recordable Incidents by Month (Chart 2)
Based on 299 Incidents

- December: 6.02%
- November: 9.36%
- October: 12.71%
- September: 9.70%
- August: 7.69%
- July: 10.03%
- June: 8.03%
- May: 8.03%
- April: 10.37%
- March: 6.35%
- February: 7.36%
- January: 4.35%
Middle East Land Total Lost Time Incidents by Occupation (Chart 3)
Based on 68 Incidents

- Roustabout (Lease Hand) 23.53%
- Floorman 30.88%
- Derrickman 11.76%
- Driller (Asst. Dr.) 13.24%
- Electrician 4.41%
- Mechanic 8.82%
- Crane / Forklift Operator 2.94%
- Superintendent/other Supervisors 1.47%
- Deck Supervisor (Deck Coordinator) 2.94%
- Deck Supervisor (Deck Coordinator) 2.94%
- Floorman 30.88%
Middle East Land Total Recordable Incidents by Occupation (Chart 4)
Based on 299 Incidents

- Floorman: 31.77%
- Roustabout (Lease Hand): 18.73%
- Driller (Asst. Dr.): 9.70%
- Derrickman: 12.37%
- Catering / Camp Personnel: 3.68%
- Deck Supervisor (Deck Coordinator): 1.00%
- Subsea Engineer: 0.33%
- Rig Helper: 0.67%
- Toolpusher (Asst.TP, Tourpusher): 2.01%
- Electrician: 3.01%
- Mechanic: 6.69%
- Crane / Forklift Operator: 3.01%
- Superintendent/other Supervisors: 2.01%
- Truck Driver / Pusher: 1.67%
- Welder: 2.34%
- Maintenance Super: 1.00%
- Catering / Camp Personnel: 3.68%
- Deck Supervisor (Deck Coordinator): 1.00%
- Subsea Engineer: 0.33%
- Rig Helper: 0.67%
- Toolpusher (Asst.TP, Tourpusher): 2.01%
- Electrician: 3.01%
- Mechanic: 6.69%
- Crane / Forklift Operator: 3.01%
- Superintendent/other Supervisors: 2.01%
- Truck Driver / Pusher: 1.67%
- Welder: 2.34%
Middle East Land Total Lost Time Incidents by Body Part (Chart 5)
Based on 67 Incidents

- Finger(s) 35.82%
- Hand(s) / Wrist(s) 10.45%
- Arm(s) 4.48%
- Trunk/Torso (chest, abdomen, groin) 4.48%
- Back 2.99%
- Head 7.46%
- Eyes (eyelid) 1.49%
- Knee(s) 1.49%
- Neck 1.49%
- Toes 2.99%
- Feet/Ankles 10.45%
- Leg(s) 16.42%
- Hand(s) / Wrist(s) 10.45%
Middle East Land Total Recordable Incidents by Body Part (Chart 6)
Based on 292 Incidents

- Knee(s): 4.11%
- Elbow(s): 4.11%
- Shoulder(s): 2.74%
- Neck: 0.68%
- Toes: 1.37%
- Digestive/Internal: 0.68%
- Eyes (eyelid): 1.71%
- Back: 3.77%
- Trunk/Torso (chest, abdomen, groin): 2.40%
- Arm(s): 4.45%
- Hands / Wrist(s): 9.59%
- Finger(s): 38.70%
- Feet/Ankles: 7.89%
- Leg(s): 8.56%

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Middle East Land Total Lost Time Incidents by Incident Type (Chart 7)
Based on 68 Incidents

- Caught Between/In: 38.24%
- Struck By: 23.53%
- Struck Against: 4.41%
- Vehicle: 2.94%
- Cut: 4.41%
- Debris: 1.47%
- Electrical Shock: 1.47%
- Contact With Chemicals/Fluids: 1.47%
- Strain/Overexertion: 1.47%
- Slip/Fall: Different Level: 20.59%
Middle East Land Total Recordable Incidents by Incident Type (Chart 8)
Based on 297 Incidents

Struck Against
4.04%

Vehicle 1.35%

Sprain 1.01%

Heat Exhaustion/Heat Stroke 0.67%

Struck By 23.91%

Caught Between/In 32.32%

Slip/Fall: Same Level 4.71%

Slip/Fall: Different Level 13.80%

Cut 10.44%

Debris 1.01%

Flame/heat/steam (contact/exposed) 2.02%

Electrical Shock 0.67%

Contact With Chemicals/Fluids 1.35%

Strain/Overexertion 2.36%

Exposure to Weather 0.34%

Sprain 1.01%

Vehicle 1.35%

Heat Exhaustion/Heat Stroke 0.67%

Struck By 23.91%

Caught Between/In 32.32%

Slip/Fall: Same Level 4.71%

Slip/Fall: Different Level 13.80%

Cut 10.44%

Debris 1.01%

Flame/heat/steam (contact/exposed) 2.02%

Electrical Shock 0.67%

Contact With Chemicals/Fluids 1.35%

Strain/Overexertion 2.36%

Exposure to Weather 0.34%
Middle East Land Total Lost Time Incidents by Equipment (Chart 9)
Based on 65 Incidents

- Top Drive (blocks, swivel, kelly) 7.69%
- Rig Floor Winch/Deck Winch (air/hydraulic) 3.08%
- Engines/Pumps/Machinery 7.69%
- Car, truck, bus 3.08%
- Stairs 3.08%
- Material 6.15%
- Pressure Hoses/Lines 7.69%
- Cathead/Drawworks 3.08%
- Elevators 1.54%
- Slings (rope, cable, chain, web) 3.08%
- BOP Stack (well head, tree) 1.54%
- Slips (drill collar clamp) 1.54%
- Iron Roughneck, Pipe Spinner, etc. 1.54%
- Rotary 1.54%
- Pipes/Collars/Tubulars/Csg. 26.15%
- Hand Tools: Manual 4.62%
- Tongs 3.08%
- Elevators 1.54%
Middle East Land Total Recordable Incidents by Equipment (Chart 10)
Based on 283 Incidents

- Anchor Chains/Cables/Winches: 0.35%
- Rig Floor Winch/Deck Winch (air/hydraulic): 2.47%
- Tongs: 4.95%
- Slips (drill collar clamp): 2.12%
- Iron Roughneck, Pipe Spinner, etc.: 2.12%
- Elevators: 3.89%
- Slings (rope, cable, chain, web): 4.59%
- Cathead/Drawworks: 3.18%
- Pipes/Collars/Tubulars/Csg.: 15.55%
- Hand Tools: Manual: 12.37%
- Hand Tools: Power: 1.41%
- Engines/Pumps/Machinery: 6.01%
- Material: 9.19%
- Pressure Hoses/Lines: 4.59%
- Welding, Cutting, Grinding Equipment: 1.06%
- Chemicals (sack, drum, pail, bulk hopper): 1.06%
- BOP Stack (well head, tree): 2.12%
- Stairs: 2.47%
- Car, truck, bus: 3.18%
- Decks (grating, walkway): 5.65%
- Ladders: 2.12%
- Forklift: 1.41%
- Crane: 2.12%
- Top Drive (blocks, swivel, kelly): 4.59%
- Rotary: 1.41%
- Elevators: 15.55%
Middle East Land Total Lost Time Incidents by Operation (Chart 11)
Based on 67 Incidents

- Travel/Transportation: 2.99%
- Tripping in/out: 14.93%
- Making Connection: 1.49%
- Routine Drilling Oper.: 2.99%
- Running Casing/Tubing: 7.46%
- Laying Down/Picking up Tubulars: 5.97%
- Equipment Repairs or Maintenance: 14.93%
- BOP Stack Install/Maintenance: 5.97%
- Rigging Up/Down: 29.85%
- Handling Riser: 1.49%
- Material Handling: Manual: 5.97%
- Material Handling: Crane/Cherry Picker: 2.99%
- Material Handling: Forklift: 2.99%
Middle East Land Total Recordable Incidents by Operation (Chart 12)
Based on 296 Incidents

- Travel/Transportation: 2.03%
- Walking: 4.39%
- Cementing: 1.01%
- Tripping in/out: 11.82%
- Making Connection: 4.39%
- Routine Drilling Oper.: 7.09%
- Running Casing/Tubing: 8.11%
- Laying Down/Picking up Tubulars: 5.74%
- BOP Stack Install/Maintenance: 6.08%
- Rigging Up/Down: 15.88%
- Equipment Repairs or Maintenance: 17.91%
- Mud Mixing/Pumping: 2.36%
- Material Handling: Manual: 8.78%
- Material Handling: Rig Floor Winch: 0.34%
- Material Handling: Crane/Cherry Picker: 1.69%
- Material Handling: Forklift: 1.69%
- Handling Riser: 0.34%
- Training: 0.34%
Middle East Land Total Lost Time Incidents by Location (Chart 13)
Based on 67 Incidents

- Rig Floor: 37.31%
- Rig Pad/Rig Decks: 8.96%
- Catwalk/V-door: 1.49%
- Derrick/Mast: 7.46%
- BOP Stack / well head/tree Area: 4.48%
- Cellar / Sub / Moonpool: 7.46%
- Mud Pits/Tanks: 2.99%
- Work Rooms change, storage, room: 2.99%
- Engine Generator Room: 4.48%
- Mud Pump Room: 4.48%
- Engine Generator Room: 4.48%
- Truck, Car, Bus: 2.99%

Based on 67 Incidents.
Middle East Land Total Recordable Incidents by Location (Chart 14)
Based on 293 Incidents

- Rig Floor: 35.15%
- Work Rooms change, storage, room: 2.05%
- Mud Mixing Tank/Area: 3.07%
- Cellar / Sub / Moonpool: 7.85%
- Cherry Picker/Crane: 1.37%
- Cherry Picker/Crane: 1.37%
- Catwalk/V-door: 1.71%
- Derrick/Mast: 6.83%
- BOP Stack /well head/tree Area: 4.44%
- Fuel/Water Storage Tanks: 1.02%
- Mud Pits/Tanks: 3.75%
- Stairs/Ladders: 1.37%
- Living/Camp Areas/Accommodations: 5.46%
- Mud Pump Room: 4.10%
- Engine Generator Room: 1.71%
- SCR/Electrical Room: 0.34%
- Cellar / Sub / Moonpool: 7.85%
- Truck, Car, Bus: 2.39%
- Cellar / Sub / Moonpool: 7.85%
Middle East Land Total Lost Time Incidents by Time in Service (Chart 15)
Based on 68 Incidents

- >5 yrs. < 10 yrs. 23.53%
- >1 yr. < 5 yrs. 45.99%
- >6 mos. < 1 yr. 14.71%
- >3 mos. < 6 mos. 11.76%
- >6 mos. < 1 yr. 14.71%
- 0 mo. < 3 mos. 1.47%
- 10+ yrs. 2.94%
Middle East Land Total Recordable Incidents by Time in Service (Chart 16)
Based on 299 Incidents

- >1 yr. < 5 yrs. 44.48%
- >5 yrs. < 10 yrs. 19.40%
- 10+ yrs. 5.35%
- >6 mos. < 1 yr. 14.38%
- >3 mos. < 6 mos. 9.36%
- 0 mo. < 3 mos. 7.02%
Middle East Land Total Lost Time Incidents by Time of Day (Chart 17)
Based on 68 Incidents

14:00 8.82%
13:00 11.76%
22:00 2.94%
23:00 5.88%
1:00 1.47%
2:00 5.88%
3:00 2.94%
4:00 1.47%
5:00 2.94%
12:00 4.41%
7:00 2.94%
8:00 5.88%
9:00 1.47%
10:00 2.94%
11:00 2.94%
Middle East Land Total Recordable Incidents by Time of Day (Chart 18)
Based on 297 Incidents
Middle East Land Total Lost Time Incidents by Age (Chart 19)
Based on 68 Incidents

- 26 - 35: 51.47%
- 18 - 25: 20.59%
- 36 - 45: 16.18%
- 46 - 55: 8.82%
- 56 - 65: 2.94%
Middle East Land Total Recordable Incidents by Age (Chart 20)
Based on 295 Incidents

- 26 - 35: 56.95%
- 36 - 45: 16.61%
- 46 - 55: 7.46%
- 18 - 25: 15.59%
- 56 - 65: 3.39%